UPDATE ON NOAA’S VIRTUAL LAB

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https://vlab.ncep.noaa.gov/
VLab is Rehosted at the NOAA Center for Weather and Climate Prediction in College Park, Maryland
December 2014
Growth of VLab
Growth of VLab

- Sessions: 31,900
- Users: 3,954
- Pageviews: 292,043
- Pages / Session: 9.15
- Avg. Session Duration: 00:10:25
- Bounce Rate: 21.17%

- Returning Visitor: 88.4%
- New Visitor: 11.6%
Upcoming

- NOAA Projects Repository in VLab
- VLab Improvement Team (VIT)
- Centralized Development and Testing Environment
What is the NOAA Projects Repository in VLab?

It is a web interface that allows:

1) NOAA employees to investigate and compare R&D projects active in the agency to improve collaboration and R2A situational awareness

2) Allow the owners of NOAA R&D projects to input their project data to a central location in compliance with NAO 216-105 and the FY15 R2A performance measure pilot.
“R2A” Defined

The transition of R&D to APPLICATION (R2A) means either:

R2O:
The transition to OPERATIONS (to NOAA operations or to the operations of external partners and agencies)

R2C:
The transition to COMMERCIAL applications (via patents, licenses, CRADAs)

R2U:
The transition to OTHER USES (e.g. policy and regulations, resource management, public education and outreach)
Transition Models:

R2O: “Pass the Baton”

R2C: “Tech Transfer”

R2U: “Letter in the Mail” or “Message in a Bottle”
Measuring the Performance of NOAA’s R&D ‘Ecosystem’ with respect to R2A

NOAA’s R&D ‘Ecosystem’:
- 12,000 employees
- 5 Line Offices
- 7 Research Labs
- 16 Cooperative Institutes
- 100s of Operational Systems
- 100s R&D Units
Proposed Framework

- Projects move through four life-cycle phases on their way to (and including) application
- These four phases can be aligned with standard Technical Readiness Level (TRL) maturity index
- Applications can be of three different types: Operations, Commercial applications, or Other uses (see prior slide)
- The four phases (and underlying TRLs) may have variants (with more specific definitions), based on type of application, or domain of R&D
Effective R2A

APPLICATION
TRL 9

DEMONSTRATION
TRLs 5-8

DEVELOPMENT
TRLs 3-4

RESEARCH
TRLs 1-2

10,000 projects

1,000

100%
(1,000)

50%
(1,000)

20%
(2,000)

2,000

1,000

Ineffective R2A

**APPLICATION**
TRL 9

**DEMONSTRATION**
TRLs 5-8

**DEVELOPMENT**
TRLs 3-4

**RESEARCH**
TRLs 1-2

10,000 projects
## NOAA Projects Repository Portlet

### Projects Repository

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Description</th>
<th>R&amp;D Source Organization</th>
<th>Transition Partner (Sending) Organization</th>
<th>Applying (Receiving) Organization</th>
<th>R20/R2C/R2U</th>
<th>Transition Plan</th>
<th>Transition Date</th>
<th>IRL</th>
<th>Target System</th>
<th>Attached Documents</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Test of Workflow Kickoff</td>
<td>Testing when workflow is started. Changed this but did not save page.</td>
<td>NWS/OST</td>
<td>OAR/NSSL</td>
<td>ESRL2</td>
<td>R2U</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A very new project so I can see approval email</td>
<td>test</td>
<td>NWS/MDL</td>
<td>NWS/MDL</td>
<td>NWS/MDL</td>
<td>R20</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Another project</td>
<td>text</td>
<td>NWS/OST</td>
<td>NWS/OST</td>
<td>NWS/OST</td>
<td>R20</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big weather project</td>
<td>This is a big weather project with lots of stuff.</td>
<td>DoD/JTWC</td>
<td>NIA</td>
<td>DoD/JTWC</td>
<td>R2C</td>
<td>01/30/2015</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Status**: Completed
- **Status**: Active
Get a Live Demo of VLab! from VLab Support Team Members Tom Filiaggi and Mike Giebler

QUESTIONS?